

TITLE OF THE INVENTION

ELECTRONIC APPARATUS WITH POINTING DEVICE ON THE  
HOUSING

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CROSS-REFERENCE TO RELATED APPLICATIONS

[0001] This application is based upon and claims the  
benefit of priority from Japanese Patent Application No.  
2003-13377, filed January 22, 2003, the entire contents  
of which are incorporated herein by reference.

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BACKGROUND OF THE INVENTION

1. Field of the Invention

[0002] This invention relates to an electronic  
apparatus, such as a portable computer, which includes  
a pointing device having a flat input surface.

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2. Description of the Related Art

[0003] Among known electronic apparatuses, such as  
portable computers, is a type that has a housing and an  
input device. The housing includes an upper housing  
half and a lower housing half. The upper housing half  
incorporates the input device. The input device has a  
flat input surface. The input device may be one that  
inputs information by using a sheet that can detect  
electrostatic capacity. Alternatively, it may be one

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that inputs information by using a pressure sensitive film that can detect pressure.

[0004] Japanese Patent Application Publication (KOKAI) No. 11-212665 discloses an electronic apparatus that has a main body and an input unit arranged therein. The housing of the main unit has an opening in the top wall. The input device is provided in the main unit, with its input surface opposing the opening. In this structure, the input surface is contacted directly. Therefore, the input device may be likely to get scratches, and /or damages.

[0005] Japanese Patent Application Publication (KOKAI) No. 2002-329978 discloses an electronic apparatus that has a housing and an input unit arranged therein. The housing includes an upper housing half and a lower housing half. The upper housing half has an opening in the top wall. The input device is provided in the upper housing half, with its input surface opposing the opening. A protection sheet and a support member are provided in the upper housing half, too. The protection sheet lies between the top wall and the input surface of the input device. More precisely, the sheet is laid on the inner surface of the top wall, closing the opening of the upper housing half and protecting the input surface against any access of the user's fingers. The input device is interposed between

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the protection sheet and the support member. The support member that is shaped like a frame secures the input device to the upper housing half. The lower housing half combines with the upper housing half, concealing the input device within the housing.

5 [0006] A manufacturer, however, needs to perform many steps to assemble the electronic apparatus disclosed in this reference. First, an opening is made in the upper housing half. Next, the protecting sheet is secured to the inner surface of the top wall of the upper housing half, to close the opening. Then, the input device and the support member are arranged in the upper housing half such that the support member secures the input device to the upper housing half. Finally, 10 the lower housing half is fastened to the upper housing half, thereby concealing the input device within the housing. Thus, it takes much time labor to assemble the electronic apparatus disclosed in the reference.

20 BRIEF SUMMARY OF THE INVENTION

[0007] Embodiments of the present invention provide an electronic apparatus with a pointing device on the housing.

[0008] According to an embodiment of the present invention, an electronic apparatus has a housing and a pointing device. The housing has an outside wall which 25

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includes an outer surface exposed outward of said housing, and an operation area in the outer surface. The pointing device has a flat input surface laid on the inner surface of the operation area, and the flat  
5 input surface receives input operations through the operation area.

[0009] Additional features and advantages of the invention will be set forth in the description which follows, and in part will be obvious from the  
10 description, or may be learned by practice of the invention. The advantages of the invention may be realized and obtained by means of the instrumentalities and combinations particularly pointed out hereinafter.

15 BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWINGS

[0010] The accompanying drawings, which are incorporated in and constitute a part of the specification, illustrate embodiments of the invention, and together with the general description given above  
20 and the detailed description of the embodiments given below, serve to explain the principles of the invention.

[0011] FIG. 1 is a perspective view showing a portable computer according to a first embodiment of the present invention;

25 [0012] FIG. 2 is a side view showing the portable computer in the first embodiment, with a housing

partially cut away;

[0013] FIG. 3 is a sectional view showing a part close to an operation area of the portable computer in the first embodiment;

5 [0014] FIG. 4 is a sectional view showing a part close to an operational area of a portable computer according to a second embodiment of the present invention;

10 [0015] FIG. 5 is a sectional view showing a part close to an operational area of a portable computer according to a third embodiment of the present invention;

15 [0016] FIG. 6 is a sectional view showing a part close to an operational area of a portable computer according to a fourth embodiment of the present invention;

20 [0017] FIG. 7 is a sectional view showing a part close to an operational area of a portable computer according to a fifth embodiment of the present invention;

[0018] FIG. 8 is a sectional view showing a part close to an operational area of a portable computer according to a sixth embodiment of the present invention;

25 [0019] FIG. 9 is a perspective view showing a part close to an operation area of a portable computer

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according to a seventh embodiment of the present invention;

[0020] FIG. 10 is a sectional view showing the part close to the operational area in the seventh embodiment;

[0021] FIG. 11 is a magnified sectional view showing the area enclosed by the chain line X in FIG. 10 in the seventh embodiment;

[0022] FIG. 12 is a perspective view showing a part close to an operation area of a portable computer according to an eighth embodiment of the present invention;

[0023] FIG. 13 is a sectional view showing the part close to the operational area in the eighth embodiment;

[0024] FIG. 14 is a sectional view showing a part close to an operational area of a portable computer according to a ninth embodiment of the present invention;

[0025] FIG. 15 is a sectional view showing a part close to an operational area of a portable computer according to a tenth embodiment of the present invention;

[0026] FIG. 16 is a perspective view showing a part close to an operation area of a portable computer according to an eleventh embodiment of the present invention; and

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[0027] FIG. 17 is a sectional view showing a part close to an operational area of a portable computer according to a twelfth embodiment of the present invention.

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#### DETAILED DESCRIPTION

[0028] Preferred embodiments according to the present invention will be described hereinafter with reference to the accompanying drawings.

10 [0029] FIG. 1 and FIG. 2 show a portable computer 1 as an electronic apparatus. The portable computer 1 includes a main unit 2 and a display unit 3.

[0030] The main unit 2 has an opaque colored resin housing 10. The housing 10 has a case 11 and a cover 12, and is formed like a flat box. Therefore, in this embodiment, the outside wall 10c of the housing 10 consists of the case 11 and cover 12. The outside wall 10c has an outer surface 10a and an inner surface 10b. The outer surface 10a is exposed outward of the housing 10.

[0031] The cover 12 has a first cover 12a and a second cover 12b. The outside surface of the first cover 12a, which is a part of the outer surface 10a exposed outward of the housing 10, has a palm rest 13. The second cover 12b is located in the rear of the first cover 12a. A keyboard 14 is fitted in the second

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cover 12b. In the rear end of the second cover 12b, a pair of display supporting feet 15 is provided separately in the width direction of the housing 10. In this embodiment, the cover 12 is composed of a plurality of members (i.e. the first cover 12a and second cover 12b), but the cover 12 may be composed of one member.

[0032] A display unit 3 has a display housing 20 and a liquid crystal panel 21 fitted in the display housing 20. In the front wall of the display housing 20, an opening 22 is provided for a display. The opening 22 occupies most of the front wall. Through the opening 22, the display screen of the liquid crystal panel 21 is exposed outward.

[0033] The display housing 20 has a pair of connection recesses 23 at one end. These connection recesses 23 consist of the recesses opened forward, downward and rearward of the display housing 20. The connection recesses 23 are located separately in the width direction of the display housing 20, and lead to the feet 15 of the housing 10. These connection recesses 23 are rotatably supported by the feet 15 of the housing 10 via a hinge (not shown).

[0034] Thus, the display unit 3 is rotatable between a closed position, covering the palm rest 13 and keyboard 14 from the upper side, and an open position,



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which exposes the palm rest 13 and keyboard 14. FIG. 1 shows the portable computer 1 in the open position.

[0035] A printed wiring board 16, a Hard disk drive (hereinafter HDD, and not shown) and a pointing device 5 17 as an input device are contained in the housing 10, as shown in FIG. 2 and FIG. 3. The printed wiring board 16 and HDD are screwed to the bottom wall of the housing 10. The pointing device 17 is provided with an input sheet 18 and a driving unit (not shown). The 10 input sheet 18 senses electrostatic capacity, for example, and one side of the sheet is made flat as an input surface 18a. The driving unit is electrically connected to the input sheet 18. The pointing device 17 is contained in the housing 10, with the input 15 surface 18a secured to the inner surface 10b of the housing 10, for example, at the center of the inside of the cover 12a.

[0036] As mentioned above, the housing 10 of the portable computer 1 is made of opaque colored resin. 20 Thus, when the pointing device 17 is contained in the housing 10, an operator cannot usually see the position of the input surface 18a from the outside of the housing 10. In this embodiment, the portable computer 1 has an operation area 30 for input operations at the 25 position corresponding to at least a part of the pointing device 17 in the outer surface 10a of the

housing 10.

[0037] In the portable computer 1, the input sheet 18 is laid on the center of the inside of the first cover 12a, the operation area 30 is provided at the center of the palm rest 13 that is the outer surface of the first cover 12a. In this embodiment, the operation area 30 is provided at the position corresponding to substantially whole surface of the input surface 18a.

[0038] The operation area 30 may be distinguishable from the surrounding area by the sense of sight or touch. The operation area 30 may be realized by providing a recess 31 formed so that an end-face (bottom) 31a of the recess 31 has substantially the same area as the input surface 18a. Namely, an operator operates the end-face 31a of the recess 31 as the operation area 30.

[0039] The position corresponding to the operation area 30 of the inner surface 10b of the housing 10 is at the same level as the surrounding area in this embodiment, as shown in FIG. 3. Alternatively, the position corresponding to the operation area 30 of the inner surface 10b of the housing 10 may have its surface distinguished from the surrounding area as by means of a surface discontinuity at the boundary of the surrounding area and operation area.

[0040] In the portable computer 1, the pointing

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device 17 is contained in the housing 10 as described below. First, the input sheet 18 is electrically connected to the driving unit. It is possible as mentioned later to first secure the input sheet 18 to  
5 the inner surface 10b of the housing 10, and then connect the input sheet 18 electrically to the driving unit.

[0041] The input surface 18a of the input sheet 18 may be secured , with an adhesive or the like, at the  
10 position corresponding to the operation area 30 of the inner surface 10b of the housing 10, i.e. the inner surface of the first cover 12a. An adhesive layer may be pre-formed on the input surface 18a. The first cover 12a secured to the pointing device 17 and the  
15 second cover 12b, fitted with the keyboard 14, are fixed to the case 11. The pointing device 17 is contained in the housing 10 by the above steps.

[0042] As the pointing device 17 is contained in the housing 10 with the input surface 18a laid on the inner  
20 surface 10b, a separate cover to protect the input surface 18a is unnecessary since a portion of the outside wall 10c provides a protection function. Therefore, the facility of containing the pointing device in the housing 10 may be enhanced. Further, as  
25 a separate protection cover of the input surface 18a may be omitted, the portable computer 1 may be made

lighter.

[0043] Further, in the portable computer 1, the pointing device 17 is fixed to the housing 10 by sticking the input sheet 18 to the inner surface 10b of the housing 10. Therefore, not only the protection cover, but also a mechanical fixing member for fixing the pointing device 17 to the housing 10, may be omitted. Therefore, the portable computer 1 may be still further improved both in terms of ease of assembly and weight.

[0044] Moreover, in the portable computer 1, the operation area 30 for input operations is provided at the position corresponding to at least a part of the pointing device 17 in the outer surface 10a of the housing 10. Thus, even if the pointing device 17 is contained in the housing 10 with the input surface 18a laid on the inner surface 10b, the position of the input surface 18a may be distinguished from the outside of the housing 10, providing good operability.

[0045] Further, the operation area 30 may be distinguished from the surrounding area by the sense of sight or touch. It is unnecessary to provide an opening in the housing 10 to expose the pointing device 17. Therefore, the design flexibility and design itself of the housing 10 will be improved.

[0046] Further, the operation area 30 may be

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provided in the outer surface 10a of the housing 10 by forming a recess 31 at a predetermined position when molding the housing 10, for example. Namely, the number of manufacturing processes for forming the operation area 30 may be reduced, simplifying its structure.

[0047] Making the housing 10 of resin is preferable considering the possibility of adversely influencing the operation of the pointing device 17, when the input surface 18a of the input sheet 18 to sense electrostatic capacity contactings the housing 10. The palm rest 13 is provided in the outer surface 10a of the housing 10, and the operation area 30 is provided in the palm rest 13, improving the operability of the pointing device 17.

[0048] FIG. 4 shows a second embodiment of the present invention. In this embodiment, a projection 32 is formed in the inner surface 10b of the housing 10 when molding the housing 10, so that the end-face (lower side) 32a becomes substantially the same area as the input surface 18a. The other structures of a personal computer 1 in this embodiment than the projection 32 are the same as that of the first embodiment. The same reference numerals are given to the same parts, therefore description of those parts will be omitted.

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[0049] In this structure, it is easy to align the position of the input sheet 18 with the operation area 30 when laying the input surface 18a over the inner surface 10b of the housing 10.

5 [0050] Next, a third embodiment of the present invention will be described with reference to FIG. 5.

[0051] In the portable computer 1, the operation area 30 has a projection 33. Namely, the end-face (upper surface) 33a of the projection 33 becomes the  
10 operation area 30. The projection 33 may be formed so that the end-face 33a has substantially the same area as the input surface 18a. The position corresponding to the operation area 30 in the inner surface 10b of the housing 10 may be at the same level as the  
15 surrounding area, as shown in FIG. 5. Alternatively, the position corresponding to the operation area 30 in the inner surface 10b of the housing 10 may have its surface distinguished from the surrounding area as by means of a surface discontinuity at the boundary of the  
20 surrounding area and operation area. Figure 4 is only one example of such a surface boundary discontinuity. Other examples include having the operation area 30 recessed as in Figure 7, having a different texture or color region for the operation area as compared to the  
25 surrounding area or any other way to permit facile recognition of the operation area. Such facile

recognition of the operation area permits application of the input sheet 18 to be easily positioned at the appropriate location for securing same to the operation area on the inner surface 10b.

5 [0052] The rest of the configuration, including the parts not shown, is the same as in the above-mentioned first embodiment. The same reference numerals are given to the same parts, therefore description of those parts will be omitted.

10 [0053] According to this embodiment, the same effect as the first embodiment may be obtained. The operation area 30 is provided in the outer surface 10a of the housing 10, by forming the projection 33 at a predetermined position when molding the housing 10.  
15 Namely, the number of manufacturing processes for forming the operation area 30 may be reduced, simplifying its structure.

[0054] FIG. 6 shows a fourth embodiment of the present invention. In this embodiment, a recess 34 in  
20 the inner surface 10b of the housing 10 is formed, so that the end-face (bottom) 34a has substantially the same area as the input surface 18a. In this structure, it is easy to align the position of the input sheet 18 with the operation area 30 when laying the input  
25 surface 18a over the inner surface 10b of the housing 10. As the rest of the configuration is the same as in

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the above-mentioned third embodiment, the same reference numerals are given to the same parts, and description of those parts will be omitted.

[0055] Hereinafter, a fifth embodiment of the present invention, or a portable computer 1, will be described with reference to FIG. 7.

[0056] In the portable computer 1, the operation area 30 has the recess 31, and a sticker 35 to indicate the operation area 30 is stuck to the operation area 30. The sticker 35 covers substantially the whole area of the end-face 31a of the recess 31.

[0057] The sticker 35 may be a paper or resin film having adhesive in one side 35a. The other side 35b of the sticker 35 having no adhesive may be colored and/or printed with patterns.

[0058] As described in the third embodiment, when the operation area 30 has the projection 33, the sticker 35 may be stuck to the end-face 33a of the projection 33. Even if the sticker 35 is stuck to the flat outer surface 10a of the housing, the seal may indicate the operation area 30. In this case, it is recommended to print the other side 35b of the sticker 35 with different colors and/or patterns from the outer surface 10a of the housing 10. The rest of the configuration, including the parts not shown, is the same as that in the above-mentioned first embodiment.



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The same reference numerals are given to the same parts, therefore description of these parts will be omitted.

[0059] According to this embodiment, the same effect as the first embodiment may be obtained. Desired  
5 colors and/or patterns may be printed on the sticker 35 to indicate the operation area 30, and the design of the housing 10 may be improved.

[0060] A sixth embodiment of the invention will be described referring to FIG. 8.

10 [0061] A portable computer 1 is provided with a first painted layer 36 in the operation area 30 to indicate the operation area 30. In the areas other than the operation area 30, a second painted layer 37 with colors or print different from the first painted  
15 layer is provided.

[0062] The operation area 30 may be formed to be at the same level as the surrounding area. When the operation area 30 has the recess 31 or the projection 33, as in the first or third embodiment, the first  
20 painted layer 36 may be provided in the end-face 31a of the recess 31 or the end-face 33a of the projection 33. The second painted layer 37 is omissible.

[0063] The rest of the configuration, including the parts not shown, is the same as that in the above-  
25 mentioned first embodiment. The same reference numerals are given to the same parts, and their description will

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be omitted. According to this embodiment, the same effect as the first embodiment may be obtained.

[0064] It is possible to provide the second painted layer 37 with a different color from the housing 10, and to omit the first painted layer 36. In this structure, the operation area 30 is the same color as the housing 10, and is discriminated from the other areas with the same color by being framed by the second painted layer 37.

[0065] FIG. 9 through FIG. 11 show a portable computer 1 as a seventh embodiment of the invention.

[0066] The operation area 30 in the portable computer 1 is made with a different surface roughness from at least the surrounding area. When the operation area 30 has the recess 31 or the projection 33, as in the first or third embodiment, the end-face 31a of the recess 31 or the end-face 33a of the projection 33 may be made with different surface roughness from the surrounding area. The areas other than the operation area 30 may be made with a different surface roughness from the operation area 30, or may be made without a rough surface. Further, the surface of the operation area 30 may not be rough, and the area other than the operation area 30 may be made with a predetermined surface roughness.

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[0067] In this embodiment, the outer surface 10a of

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the housing 10 is made flat, and only the operation  
area 30 is made with a desired surface roughness. FIG.  
11 shows the surface condition of the operation area 30  
with that of the outer surface 10a next to the  
5 operation area 30, magnifying a part of the housing 10  
shown in FIG. 10. The rest of the configuration,  
including the parts not shown, is the same as the  
above-mentioned first embodiment. The same reference  
numerals are given to the same parts, and their  
10 description will be omitted.

[0068] Hereinafter, an eighth embodiment of the  
invention, or a portable computer 1, will be described  
with reference to FIG. 12 and FIG. 13.

[0069] In the portable computer 1, the operation  
15 area 30 is made to be at the same level as the  
surrounding area and to have a mesh-like surface.  
Providing a circular or polygonal hole 38 with a  
predetermined interval in the operation area 30 of the  
outside wall 10c forms the mesh part. The size, shape  
20 and interval of the holes 38 are determined so as to  
distinguishable from the surrounding area. In this  
embodiment, the outer surface 10a of the housing 10 is  
made flat. The rest of the configuration, including  
the parts not shown, is the same as the above-mentioned  
25 first embodiment. The same reference numerals are  
given to the same parts, and their description will be

omitted.

[0070] Next, a ninth embodiment of the invention, or a portable computer 1, will be described with reference to FIG. 14.

5 [0071] In the portable computer 1, the operation area 30 is made to be at the same level as the surrounding area and to have a plurality of hemispheric recesses 39 at a predetermined interval. The size, shape and interval of these recesses 39 are determined  
10 so as to distinguishable from the surrounding area as well as the holes of eighth embodiment. The rest of the configuration, including the parts not shown, is the same as the above-mentioned first embodiment. The same reference numerals are given to the same parts,  
15 and their description will be omitted.

[0072] FIG. 15 shows a portable computer 1 described as a tenth embodiment of the invention.

[0073] The operation area 30 in the portable computer 1 is made to be at the same level as the  
20 surrounding area and to have a plurality of hemispheric projections 40 at a predetermined interval. The size, shape and interval of these projections 40 are determined so as to distinguishable from the surrounding area. The rest of the configuration,  
25 including the parts not shown, is the same as the above-mentioned first embodiment. The same reference

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numerals are given to the same parts, and their description will be omitted.

[0074] When the operation area 30 has the recess 31 or the projection 33, as in the first or third  
5 embodiment, the mesh part in the eighth embodiment, the plurality of recesses 39 in the ninth embodiment, and the plurality of projections 40 in the tenth embodiment may be formed in the end-face 31a of the recess 31 or the end-face 33a of the projection 33.

10 [0075] A eleventh embodiment of the invention, or a portable computer 1, will be described with reference to FIG. 16.

[0076] As shown in FIG. 16, the portable computer 1 has a pointing device 17, which is used as an input  
15 device. The pointing device 17, the input sheet 18 consists of many input sections, for example, two input sections (not shown) of first input section and second input section. The first input section is used to perform an input operation, such as moving a pointer on  
20 the display screen. The second input section is used to perform another input operation, such as scrolling the screen.

[0077] The operation area 30 of the pointer device 17 also consists of two sections of first operation  
25 section 41 and second operation section 42. The first operation section 41 is associated with the first input

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section of the input sheet 18. The second operation section 42 is associated with the second input section of the input sheet 18.

5 [0078] In this embodiment, the operation area 30 has a recess 31. The recess 31 is provided with a rib 43 to divide the first and second operation sections 41 and 42. The same reference numerals are given to the same parts as in the first embodiment, and their description will be omitted.

10 [0079] The number of input sections in the input sheet 18 is optional. The operation sections may be divided corresponding to a part or all of the input sections. The operation sections may be divided not only by a rib, but also by a groove, seal, paint, mesh,  
15 surface roughness, multiple recesses, multiple projections, or combination of the above, to be distinguishable from the adjacent operation section. Further, the operation area 30 may not have the recess 31, may have the projection 33, or may be made to be at  
20 the same level as the surrounding area. In either case, the operation section may be made distinguishable from the adjacent operation section by a rib, a groove, seal, painting, mesh, surface roughness, multiple recesses, multiple projections, or combination of the above.

25 [0080] FIG. 17 shows a portable computer 1 of a twelfth embodiment of the present invention.

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[0081] The portable computer 1 is provided with a transparent housing 10 having an outside wall 10c. In other words, all of the case 11, first cover 12a, and second cover 12b are made of transparent resin such as acrylic. The housing 10 may be either colorless transparent or colored transparent. Colored transparent includes black transparent and gray transparent, which is an intermediate color between transparent and black transparent, in addition to chromatic transparent such as red transparent, blue transparent and yellow transparent.

[0082] A first colored layer 51 is provided at least on a part of the pointing device 17 in the inner surface 10b of the housing 10 at the position corresponding to substantially all areas of the input surface 18a. A second colored layer 52 with a different color from the first colored layer 51 is provided at the position other than the position corresponding to the input surface 18a in the inner surface 10b of the housing 10. The colored layers 51 and 52 may be either opaque or transparent. The color mentioned here includes not only chromatic colors, but also achromatic colors such as black, white and gray. These colored layers 51 and 52 may be provided by a seal or by paint.

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[0083] The operation area 30 for the input

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operations may be provided at least on a part of the pointing device 17 in the inner surface 10b of the housing 10, for example, at the position corresponding to substantially the whole area of the input surface  
5 18a. The operation area 30 may be distinguishable from the surrounding area by the sense of sight or touch, and may be applied to any operation area 30 described in the first to eleventh embodiments.

[0084] In this embodiment, the operation area 30 has  
10 the recess 31. The position of the input surface 18a of the pointing device 17 may be distinguished by the first colored layer 51, and the operation area 30, like the recess 31, may be omitted. The rest of the configuration, including the parts not shown, is the  
15 same as in the above-mentioned first embodiment. The same reference numerals are given to the same parts, and their description will be omitted.

[0085] The housing 10 in this embodiment is transparent, and the first colored layer 51 provided in  
20 the inner surface 10b of the housing 10 may be visually identified through the housing 10. The first colored layer 51 is provided at the position corresponding to at least a part of the pointing device 17, and the position of the pointing device 17 may be distinguished  
25 by the colored layer 51 also from the outside of the housing 10.



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[0086] By the way, although the whole housing 10 is transparent in this embodiment, it is possible to merely make at least the part provided with the operation area 30 transparent. For example, when the operation area 30 is provided in the palm rest 13, at least the first cover 12a may be made of a transparent material.

[0087] Moreover, the same function and effect as those in the twelfth embodiment may be obtained even though the second colored layer 52 is omitted and the first colored layer 51 is provided with a different color from the housing 10 in at least a part of the pointing device 17.

[0088] Further, the same function and effect as those in the twelfth embodiment may be obtained by omitting the first colored layer 51 and providing the second colored layer 52 with a different color from the housing 10 in the area excluding at least a part of the pointing device 17.

[0089] The present invention is not restricted to the above-mentioned first through twelfth embodiments. The input surface 18a of the pointing device 17 may be laid on any part of the inner surface 10b of the housing 10. The operation area 30 may be provided at a position corresponding to at least a part of the pointing device 17.

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[0090] An electronic apparatus according to the present invention is not limited to a portable computer, and is applicable to a wide variety of electronic apparatuses, including an electronic diary and PDA.

5 [0091] Additional advantages and modifications will readily occur to those skilled in the art. Therefore, the invention in its broader aspects is not limited to the specific details and representative embodiments shown and described herein. Accordingly, various  
10 modifications may be made without departing from the spirit or scope of the general inventive concept as defined by the appended claims and their equivalents.